

1 MRSSOS - - - - TLERSEOOTRAASSLEELLR VEGF-D  
1 MNFLLS W V H W S L A - - - - - L L L h VEGF 165  
27 ITHSEDWKLWRCRLRLKSFTSMDSRSASHR VEGF-D  
17 YLH HAKW S - - - - - QAAPMAEGGGQN H H h VEGF 165  
57 ST - RFAATFYDLETLKVIDEEWQRTOCSPR VEGF-D  
39 EVVKF MDVY - - - - - QRSYCHPI h VEGF 165  
86 ETCVEVASSELGKSTNTFFKPPCVNVFRCGG VEGF-D  
56 ETLV DIFQ EYPDEIEYI FKP SCVPLM RCGG h VEGF 165  
116 CCNEESLICMNTSTSYISKQLFEISVPLTS VEGF-D  
86 CCNDEGL ECVPT EESN ITMO IMRI KP - - HQ h VEGF 165  
145 VP ELVPVKVANHTGCKCLPTAPRHPYSIR VEGF-D  
114 GQHIGEMSFLQH NKC ECR PKKDR - - - - - h VEGF 165  
176 RSIOIPEEDRCSHKKLCPIDMLWDSNKK VEGF-D  
137 - - - - ARQ ENP CGPC - - - - - h VEGF 165  
206 CVLOEENPLAGTEDHSHLOEPALCGPHMMF VEGF-D  
147 - - - - - SERRKHL - - - - - h VEGF 165  
236 DEDRCECVCKTPCPKDLIQHPKNCSCFECK VEGF-D  
154 - - - - - FV ODPQTCKC - SCCK h VEGF 165  
266 ESLETCCOKHKLFHPDTCSCEDRCPFHHP VEGF-D  
167 NTDSRC KARQLELNER TCRC D - - - - - h VEGF 165  
296 CASGKTACAKHCRFPKEKRAAOGPHSRKNP VEGF-D  
188 - - - - - KPRR h VEGF 165

FIG. 1A

1 MRSSOSTLERSEOOIRAASSLEELLRITHS VEGF-D  
 1 MSPLLRRL-----LLAALLQLAPAh VEGF-B  
 31 EDWKLWRCRLRLKSFTSMDSRSASHRSTRF VEGF-D  
 20 QA-----PVSQPDAPGHQRKVVSWh VEGF-B  
 61 AATFYDIETLKVIDEEWORTOCSPRETCVE VEGF-D  
 39 IDVY-----TRATCQPREVVVP h VEGF-B  
 91 VASELGKSTNTFFKPPCVNVFRCGGCCNEE VEGF-D  
 56 LTVELMGTVAKQLVPSCVTVQRCGGCCPD h VEGF-B  
 121 SLICMNTSTSYISKQLFEISVPLTSVPELV VEGF-D  
 86 GLECVPTGQHQVRMQILMIRYPSSQLGEM - h VEGF-B  
 151 PVKVANHTGCKCLPTAPRHPYSITRRSIOI VEGF-D  
 115 --SLEEHSQCRCRPK-----KKDSAVh VEGF-B  
 181 PEEDRCSHKKLCPIIDMLWDSNKKCVLOE VEGF-D  
 134 KPDS----PRPLCP-----RCTQH h VEGF-B  
 211 ENPLAGTEDHSHLOEPALCGPHMMFDEDRC VEGF-D  
 150 QRP-----DPRTC h VEGF-B  
 241 ECVCKTPCPKDLIOHPKNCSCFECKESLET VEGF-D  
 158 RCRCRR---RSFLR----- h VEGF-B  
 271 CCQKHKL-FHPDTCSCEDRCPFHTRPCASG VEGF-D  
 169 -COGRGLELNPDRCRC----- h VEGF-B  
 300 KTACAKHCRFPKEKRAAOGPHSRKNP VEGF-D  
 184 -----RKLRR h VEGF-B

FIG. 1B

1 M R S S O S T L E R S E O O I R A A S S L E E L L R I T H S VEGF-D  
1 M T - - - - - V L Y P VEGF-C

31 E D W K L W R C R L R - - - - - L K S F T S M D S R S A S VEGF-D  
7 E Y W K M Y K C Q L R H G G W Q H N R E Q A N L N S R T E E VEGF-C

55 H R S T R F A A T F Y D I E T L K V I D E E W O R T Q C S P VEGF-D  
37 - - T I K F A A A H Y N T E I L K S I D N E W R K T O C M P VEGF-C

85 R E T C V E V A S E L G K S T N T F F K P P C V N V F R C G VEGF-D  
65 R E V C I D V G K E F G V A T N T F F K P P C V S V Y R C G VEGF-C

115 G C C N E E S L I C M N T S T S Y I S K Q L F E I S V P L T VEGF-D  
95 G C C N S E G L Q C M N T S T S Y L S K T L F E I T V P L S VEGF-C

145 S V P E L V P V K V A N H T G C K C L P T A P - - R H P Y S VEGF-D  
125 Q G P K P V T I S F A N H T S C R C M S K L D V Y R Q V H S VEGF-C

173 I I R R S T O I P E E D R C S H S K K L C P I D M L W D S N VEGF-D  
155 I I R R S L P A T L P Q - C Q A A N K T C P T N Y M W M M H VEGF-C

203 K K C V L Q E E - - - N P L A G T E D - - - - - VEGF-D  
184 I C R C L A O E D F M F S S D A G D D S T D G F H D I C G P VEGF-C

220 H S H L O E - - - - - VEGF-D  
214 N K E L D E E T C Q C V C R A G L R P A S C G P H K E L D R VEGF-C

226 - - - - - P A L C G P H M M F D E D R C E C V VEGF-D  
244 N S C Q C V C K N K L F P S Q C G A N R E F D E N T C Q C V VEGF-C

244 C K T P C P K D L L O H P K N C S C F E C K E S L E T C C O VEGF-D  
274 C K R T C P R N Q P L N P G K C A C - E C T E S P Q K C L L VEGF-C

274 K H K L F H P D T C S C E D R C P F H T R P C A S G K T A C VEGF-D  
303 K G K K F H H Q T C S C - - - - - Y R R P C T N R Q K A C VEGF-C

304 A K H C R F P K E K - R A A O G P H S R K N P . VEGF-D  
327 E P G F S Y S E E V C R C V P S Y W K R R Q M S VEGF-C

FIG. 1C

1	M R S S O	-----	S T L E R S E O O I R A A S S L	VEGF-D
1	M P V M R L F P C F L Q L L A G L	A-----		hPIGF
22	E E L L R I T H S E D W K L W R C R L R L K S F T S M D S R			VEGF-D
19	---L P A V P P Q Q W A L	-----		hPIGF
52	S A S H R S T R F A A T F Y D I E T L K V I D E E W O R T O			VEGF-D
30	S A G N G S S	-----	E V E V V P - F Q E V W G R S Y	hPIGF
82	C S P R E T C V E V A S E L G K S T N T F F K P P C V N V F			VEGF-D
52	C R A L E R L V D V V S E Y P S E V E H M F S P S C V S L L			hPIGF
112	R C G G C C B E E S L I C M N T S T S Y I S K Q L F E I S V			VEGF-D
82	R C T G C C G D E N L H C V P V E T A N V T M O L L K I R S			hPIGF
142	P L T S V P E L V P V K V A N H T G C K C L P T A P R H P Y			VEGF-D
112	--G D R P S Y V E L T F S Q H V R C E C R P	-----		hPIGF
172	S I I R R S I O I P E E D R C S H S K K L C P I D M L W D S			VEGF-D
133	--L R E K M K - P E R R R	-----		hPIGF
202	N K C K C V L O E E N P L A G T E D H S H L O E P A L C G P			VEGF-D
144	-----			hPIGF
232	H M M F D E D R C E C V C K T P C P K D L I O H P K N C S C			VEGF-D
144	-----			hPIGF
262	F E C K E S L E T C C O K H K L F H P D T C S C E D R C P F			VEGF-D
144	-----			hPIGF
292	E T R P C A S G K T A C A K H C R F P K E K R A A Q G P			VEGF-D
144	-----	P K G R G	-----	K R R R E K Q R P T D hPIGF
320	-----	R S R K N P		VEGF-D
160	C H L C G D A V P R R			hPIGF

FIG. 1D

1 MRSSOSTLERSEOOIHAASSLEELLRIITHS VEGF-D  
 1 MT-----VLYP VEGF-C  
 1 MS-----PL-----h VEGF-B  
 1 M-----NFLLS h VEGF 165  
 1 MP-----VMRLFPChPIGF

31 EDWELWRCHLR LKSF-----TSMDSRSA VEGF-D  
 7 EYWKMYKCOLRKGGWQH-NREQANLNSRT- VEGF-C  
 5 -----LRRLLLAALLQLAPAPVSQPD h VEGF-B  
 7 --WVWWSLALL- YLHHA KWSQAAPMAEGCh VEGF 165  
 10 --FLQLLAGLALPAVPPQQWA-----LSAGN hPIGF

54 SHRSTRFAATGYDIETLKVIDEEQORTOCS VEGF-D  
 35 -EETIKFAAAKYNTETLKSIDNEWKRKTOCM VEGF-C  
 29 PGH-----QRKVVSVIDV-YTRATCQ h VEGF-B  
 34 GQN-----HHEVVKFMDV-YQRSYCH h VEGF 165  
 34 GSS-----EVEVVPFQEV-WGRSYCR hPIGF

84 PRETCVEVASELCKSTNTFPKPPCVNVFRC VEGF-D  
 64 PREVCIDVCKEFGVATNTPPKPPCVSVYRC VEGF-C  
 49 PREVVVPLTVELMGTVAEQLVPSCVTVQRC h VEGF-B  
 54 PIETLVDFIQEYPDEIEYIFKPSCVPLMRCh VEGF 165  
 54 ALERLVDDVSEYPSEVEHMFSPSCVSLLRChPIGF

114 GCCCNEESLICMNTSTSYISKQLFEISCPL VEGF-D  
 94 GGCCNSEGLQCMNTSTSYLSKTLFEITVPL VEGF-C  
 79 GGCCPDDGLECVPRGQHQRVMQILMIR--- h VEGF-B  
 84 GGCCNDEGLECVPTTEESENITMQIMRIKP--- h VEGF 165  
 84 TGCCGDENLHCVPVETANVTMQLLKIR--- hPIGF

144 TSVPELVVPVKVANETGCKCLPTAP--RHPY VEGF-D  
 124 SQGPKPVTISFANHSTSCRCMSKLDVYRQVH VEGF-C  
 106 YPSSQLGEMSL EEHSQCEC----- h VEGF-B  
 112 HQGQHIGEMSF LQH NKCEC----- h VEGF 165  
 112 GDRPSYVELTFSQHVRCCEC----- hPIGF

172 SIIRRS LQLPEEDRCSH SKKLCPIDMLWDS VEGF-D  
 154 SIIRRS LPA TL PQCAANKTCPTNYMQNN VEGF-C  
 125 ----RPPKKKDS AVKPDSPRPLCP----- h VEGF-B  
 131 ----RPPKKDR--ARQENP--CG----- h VEGF 165  
 131 ----RLPREK--MK----- hPIGF

FIG. 2A

202	NKCKCVLQEENPLAGTED	-----	VEGF-D
183	NI	CRCLAQEDFMFSSDAGDDSTDGFHDIC	VEGF-C
144	---	RC	TQRKQR---P-----h VEGF-B
145	---	PC	SERRKELFVQ-----h VEGF 165
139	---	PERRRP	-----hPIGF
220	-	HSHLQE	-----VEGF-D
213	PNKE	LD	ETCQCVCRACLRPASCCPHKELD VEGF-C
153	-----		D VEGF-B
157	-----		D h VEGF 165
145	-----		hPIGF
226	-----	PALCGPHMMFDEDRCE	VEGF-D
243	RNSCQCVCKNKP	FSQCCANREFDENTCQC	VEGF-C
154	PRTCRRCRRRSF	-----	h VEGF-B
158	PQTKCKSCKNTD	-----	h VEGF 165
145	-----	KGRC	-----hPIGF
243	VCKTPCPKDLIOHPKNCSCFECKESLETCC		VEGF-D
273	VCK	RTCPRNQPLNPGKCACTES	PQKCL VEGF-C
167	-----		LRCH VEGF-B
170	-----		SRCK h VEGF 165
149	-----		KRRR hPIGF
273	QKHKLPHPOTCSCEDR	CPFHTRPCASCKT	VEGF-D
302	L	KGK	KFHQTCSCYRPPCTNRQKACEPGFS VEGF-C
171	GRGLRLNP	DTCRC	-----h VEGF-B
174	ARQLELNERT	CRC	-----h VEGF 165
153	E	KQRP	TDCHLCGD-----hPIGF
302	ACAKHCRFPKEYRAAOGPMSRKNP		VEGF-D
332	YSEEV	CR	CVPSYW-----KRROMS VEGF-C
184	-----		RKLRR h VEGF-B
187	-----		DKPRR h VEGF 165
166	-----		AVPRR hPIGF

FIG. 2B

10	20	30	40
MPSSQSTLERSEDDIRAASSLEELLRITHSEDWKLWRCRL			
50	60	70	80
RLKSFTSMDSRSASHRSTRFAATFYDIETLKVIDEEWQRT			
90	100	110	120
QCSPRETCVEVASELGKSTNTFFKPPCVNVFRCGGCCNEE			
130	140	150	160
SLICMNTSYISKQLFEISVPLTSVPELVPVKVANHTGCC			
170	180	190	200
KCLPTAPHPYSIIRRSIQIPEEDRCSHKKLCPIDMLWD			
210	220	230	240
SNKCKCVLQEEENPLAGTEDHSHLQEPALCGPHMMFDEDRC			
250	260	270	280
ECVCKTPCPKDLIQHPKNCSCFECKESLETCCQKHKL FHP			
290	300	310	320
DTCSCEDRCPFHTRPCASGKTACAKHCRFPKEKRAAQCPH			
SRKNP			

FIG.3

FIG. 4

GTTGGGTTCCAGCTTTCTGTAGCTGTAAGCATTGGTGGCCACACCACCTCCTTACAA  
 AGCAACTAGAACCTGCGGCATACATTGGAGAGATTTTTTTAATTTTCTGGACATGAA  
 GTAAATTTAGAGTGCTTTCTAATTTTCAGGTAGAAGACATGTCCACCTTCTGATTATT  
 TTTGGAGAACATTTTGATTTTTTTCATCTCTCTCTCCCCACCCCTAAGATTGTGCAA  
 AAAAAGCGTACCTTGCCTAATTGAAATAATTTTCATTGGATTTTGATCAGAACTGATT  
 ATTTGGTTTTCTGTGTGAAGTTTTGAGGTTTCAAACCTTCCTTCTGGAGAATGCCTT  
 TTGAAACAATTTTCTCTAGCTGCCTGATGTCAACTGCTTAGTAATCAGTGGATATTG  
 AAATATTCAAAATGTACAGAGAGTGGGTAGTGGTGAATGTTTTTCATGATGTTGTACG  
 TCCAGCTGGTGCAGGGCTCCAGTAATGAACATGGACCAGTGAAGCGATCATCTCAGT  
 CCACATTGGAACGATCTGAACAGCAGATCAGGGCTGCTTCTAGTTTGGAGGAACCTAC  
 TTCGAATTACTCACTCTGAGGACTGGAAGCTGTGGAGATGCAGGCTGAGGCTCAAAA  
 GTTTTACCAGTATGGACTCTCGCTCAGCATCCCATCGGTCCACTAGGTTTGC GGCAA  
 CTTTCTATGACATTGAAACACTAAAAGTTATAGATGAAGAATGGCAAAGAACTCAGT  
 GCAGCCCTAGAGAAACGTGCGTGGAGGTGGCCAGTGAGCTGGGGAAGAGTACCAACA  
 CATCTTCAAGCCCCCTTGTGTGAACGTGTTCCGATGTGGTGGCTGTTGCAATGAAG  
 AGAGCCTTATCTGTATGAACACCAGCACCTCGTACATTTCAAACAGCTCTTTGAGA  
 TATCAGTGCCTTTGACATCAGTACCTGAATTAGTGCCTGTTAAAGTTGCCAATCATA  
 CAGGTTGTAAGTGCTTGCCAACAGCCCCCGCCATCCATACTCAATTATCAGAAGAT  
 CCATCCAGATCCCTGAAGAAGATCGCTGTTCCCATTTCCAAGAACTCTGTCTATTG  
 ACATGCTATGGGATAGCAACAAATGTAAATGTGTTTTGCAGGAGGAAAATCCACTTG  
 CTGGAACAGAAGACCACTCTCATCTCCAGGAACCAGCTCTCTGTGGGCCACACATGA  
 TGTTTGACGAAGATCGTTGCGAGTGTGTCTGTAAAAACACCATGTCCCAAAGATCTAA  
 TCCAGCACCCCAAAAACCTGCAGTTGCTTTGAGTGCAAAGAAAGTCTGGAGACCTGCT  
 GCCAGAAGCACAAAGCTATTTACCCAGACACCTGCAGCTGTGAGGACAGATGCCCCCT  
 TTCATACCAGACCATGTGCAAGTGGCAAACAGCATGTGCAAAGCATTGCCGCTTTC  
 CAAAGGAGAAAAGGGCTGCCAGGGGGCCCCACAGCCGAAAGAATCCTTGATTACAGCG  
 TTCCAAGTTCCCCATCCCTGTCAATTTTAAACAGCATGCTGCTTTGCCAAGTTGCTGT  
 CACTGTTTTTTTCCCAGGTGTTAAAAAAAATCCATTTTACACAGCACCACAGTGA  
 ATCCAGACCAACCTTCCATTCACACCAGCTAAGGAGTCCCTGGTTCATTGATGGATG  
 TCTTCTAGCTGCAGATGCCTCTGCGCACCAAGGAATGGAGAGGAGGGGACCCATGTA  
 ATCCTTTTGTTTAGTTTTGTTTTTGTTTTTTGGTGAATGAGAAAGGTGTGCTGGTCA  
 TGGAATGGCAGGTGTCATATGACTGATTACTCAGAGCAGATGAGGAAAACCTGTAGTC  
 TCTGAGTCCTTTGCTAATCGCAACTCTTGTGAATFATTCTGATTCTTTTTTATGCAG  
 AATTTGATTTCGTATGATCAGTACTGACTTTCTGATTACTGTCCAGCTTATAGTCTTC  
 CAGTTTAATGAAC TACCATCTGATGTTTCATATTTAAGTGTATTTAAAGAAAATAAA  
 CACCATTATTCAAGCCAAAAAATAAAAAA



MYREWVVNVFMMLYVQLVQGSSNEHGPVKRSSQSTLERSEQQIRAASSLEELLRIT  
HSEDWKLWRCRLRLKSFTSMDSRSASHRSTRFAATFYDIETLKVIDEEWQRTQCSPR  
ETCVEVASELGKSTNTFFKPPCVNVFRCGGCCNEESLICMNTSTSYISKQLFEISVP  
LTSVPELVPVKVANHTGCKCLPTAPRHPYSIIRRSIQIPEEDRCSHKKLCPIDMLW  
DSNKCKCVLQEENPLAGTEDHSHLQEPALCGPHMMFDEDRCECVCKTPCPKDLIQHP  
KNCSCFECKESLETCCQKHKLFHPDTCSCEDRCPFHTRPCASGKTACAKHCRFPKEK  
RAAQGPHSRKNP

**FIG. 5**

FIG. 6

GGAGAATGCCTTTTGCAACACTTTTCAGTAGCTGCCTGGAAACAACTGCTTAGTCAT  
CGGTAGACATTTAAAATATTCAAAATGTATGGAGAATGGGGAATGGGGAATATCCTC  
ATGATGTTCCATGTGTACTTGGTGCAGGGCTTCAGGAGCGAACATGGACCAGTGAAG  
GATTTTCTTTTGAGCGATCATCCCGTCCATGTTGGAACGATCTGAACAACAGATC  
CGAGCAGCTTCTAGTTTGGAGGAGTTGCTGCAAATCGCGCACTCTGAGGACTGGAAG  
CTGTGGCGATGCCGGTTGAAGCTCAAAAGTCTTGCCAGTATGGACTCACGCTCAGCA  
TCCCATCGCTCCACCAGATTTGCGGCAACTTTCTATGACACTGAAACACTAAAAGTT  
ATAGATGAAGAATGGCAGAGGACCCAATGCAGCCCTAGAGAGACATGCGTAGAAGTC  
GCCAGTGAGCTGGGGAAGACAACCAACACATTCTTCAAGCCCCCTGTGTAAATGTC  
TTCCGGTGTGGAGGCTGCTGCAACGAAGAGGGTGTGATGTGTATGAACACAAGCACC  
TCCTACATCTCCAAACAGCTCTTTGAGATATCAGTGCCTCTGACATCAGTGCCCGAG  
TTAGTGCCTGTAAAATTGCCAACCATACGGGTTGTAAGTGCTTGCCCACGGGCCCC  
CGCCATCCTTACTCAATTATCAGAAGATCCATTCAGACCCCAGAAGAAGATGAATGT  
CCTCATTCCAAGAACTCTGTCTTATTGACATGCTGTGGGATAACACCAAATGTAAA  
TGTGTTTTTGCAAGACGAGACTCCACTGCCTGGGACAGAAGACCACTCTTACCTCCAG  
GAACCACTCTCTGTGGACCGCACATGACGTTTGATGAAGATCGCTGTGAGTGCCTC  
TGTAAGCACCATGTCCGGGAGATCTCATTCAGCACCCGGAAAACCTGCAGTTGCTTT  
GAGTGCAAAGAAAGTCTGGAGAGCTGCTGCCAAAAGCACAAAGATTTTTTACCCAGAC  
ACCTGCAGCTGTGAGGACAGATGTCCTTTTCACACCAGAACATGTGCAAGTAGAAAG  
CCAGCCTGTGGAAAGCACTGGCGCTTTCCAAAGGAGACAAGGGCCCAGGGACTCTAC  
AGCCAGGAGAACCCTTGATTCAACTTCCTTTCAAGTCCCCCATCTCTGTCATTTTA  
AACAGCTCACTGCTTTGTCAAGTTGCTGTCACTGTTGCCCACTACCCCTTGAACATG  
TGCAAACACAGACACACACACACACACACAGAGCAACTAGAATTATGTTTTCT  
AGGTGCTGCCTAAG

FIG. 7

AAACTTTGCTTCTGGAGAATGCCTTTTGCAACACTTTTCAGTAGCTGCCTGGAAACA  
ACTGCTTAGTCATCGGTAGACATTTAAAATATTCAAAATGTATGGAGAATGGGGAAT  
GGGGAATATCCTCATGATGTTCCATGTGTACTTGGTGCAGGGCTTCAGGAGCGAACA  
TGGACCAGTGAAGCGATCATCCCGGTCCATGTTGGAACGATCTGAACAACAGATCCG  
AGCAGCTTCTAGTTTGGAGGAGTTGCTGCAAATCGCGCACTCTGAGGACTGGAAGCT  
GTGGCGATGCCGGTTGAAGCTCAAAAGTCTTGCCAGTATGGACTCACGCTCAGCATC  
CGATCGCTCCACCAGATTTGCGGCAACTTTCTATGACACTGAAACACTAAAAGTTAT  
AGATGAAGAATGGCAGAGGACCCAATGCAGCCCTAGAGAGACATGCGTAGAAGTCGC  
CAGTGAGCTGGGGAAGACAACCAACACATTCTTCAAGCCCCCTGTGTAAATGTCTT  
CCGGTGTGGAGGCTGCTGCAACGAAGAGGGTGTGATGTGTATGAACACAAGCACCTC  
CTACATCTCCAAACAGCTCTTTGAGATATCAGTGCCTCTGACATCAGTGCCCGAGTT  
AGTGCCTGTTAAAATTGCCAACCATACGGGTGTAAAGTGCTTGCCACGGGCCCCCG  
CCATCCTTACTCAATTATCAGAAGATCCATTGACACCCAGAAAGATGAATGTCC  
TCATTCCAAGAACTCTGTCCTATTGACATGCTGTGGGATAACACCAAATGTAAATG  
TGTTTTGCAAGACGAGACTCCACTGCCTGGGACAGAAGACCCTCTTACCTCCAGGA  
ACCCACTCTCTGTGGACCGCACATGACGTTTGATGAAGATCGCTGTGAGTGCGTCTG  
TAAAGCACCATGTCCGGGAGATCTCATTGACACCCGAAAACCTGCAGTTGCTTTGA  
GTGCAAAGAAAGTCTGGAGAGCTGCTGCCAAAAGCACAAGATTTTTACCCAGACAC  
CTGCAGGTCAATGGTCTTTTCGCTTTCCCCTTAAGTTGGTTACTGATGACATTTAA  
AGGACATACTAATCTGATCTGTTTCAGGCTCTTTCTCTCAGAGTCCAAGCAC

1	MYGEWGMGNILMMFHVYLVQGF	SEHGPVKD	FSFERS	SSRS	mVEGF-D1
1	MYGEWGMGNILMMFHVYLVQGF	SEHGPVK	-----	SSRS	mVEGF-D2
41	MLERSEQQIRAAASSLEELLQIAHSE	DWKLWRCRL	KKLSL	A	mVEGF-D1
36	MLERSEQQIRAAASSLEELLQIAHSE	DWKLWRCRL	KKLSL	A	mVEGF-D2
81	SMDSRSASHRSTRFAATFYDTETLXVI	DEEWQRT	QCSPRE		mVEGF-D1
76	SMDSRSASHRSTRFAATFYDTETLXVI	DEEWQRT	QCSPRE		mVEGF-D2
121	TCVEVASELGKTTNTFFKPPPCVN	VFRCGGCC	NEEGVMCMN		mVEGF-D1
116	TCVEVASELGKTTNTFFKPPPCVN	VFRCGGCC	NEEGVMCMN		mVEGF-D2
161	TSTSYISKQLFHISVPLTSVPEL	VPVKIANHTGCK	CLPTG		mVEGF-D1
156	TSTSYISKQLFHISVPLTSVPEL	VPVKIANHTGCK	CLPTG		mVEGF-D2
201	PRHPYSIIRRSIQTPPEDECPH	SKKLCPI	DMLDNTKCKC		mVEGF-D1
196	PRHPYSIIRRSIQTPPEDECPH	SKKLCPI	DMLDNTKCKC		mVEGF-D2
241	VLQDETPLPGTEDHSYLQEPTL	CGPHMTFDE	DRCECVCKA		mVEGF-D1
236	VLQDETPLPGTEDHSYLQEPTL	CGPHMTFDE	DRCECVCKA		mVEGF-D2
281	PCPGDLIQHPENCSCFECKES	LESCCQKHKIF	HPDTCSC		mVEGF-D1
276	PCPGDLIQHPENCSCFECKES	LESCCQKHKIF	HPDTC	RS	mVEGF-D2
321	DRCPFHTRTCASRKPA	CGKHWRFP	KETRAOGLYS	OE	mVEGF-D1
316	-----	-----	VFSL	-SIP	mVEGF-D2

FIG.8



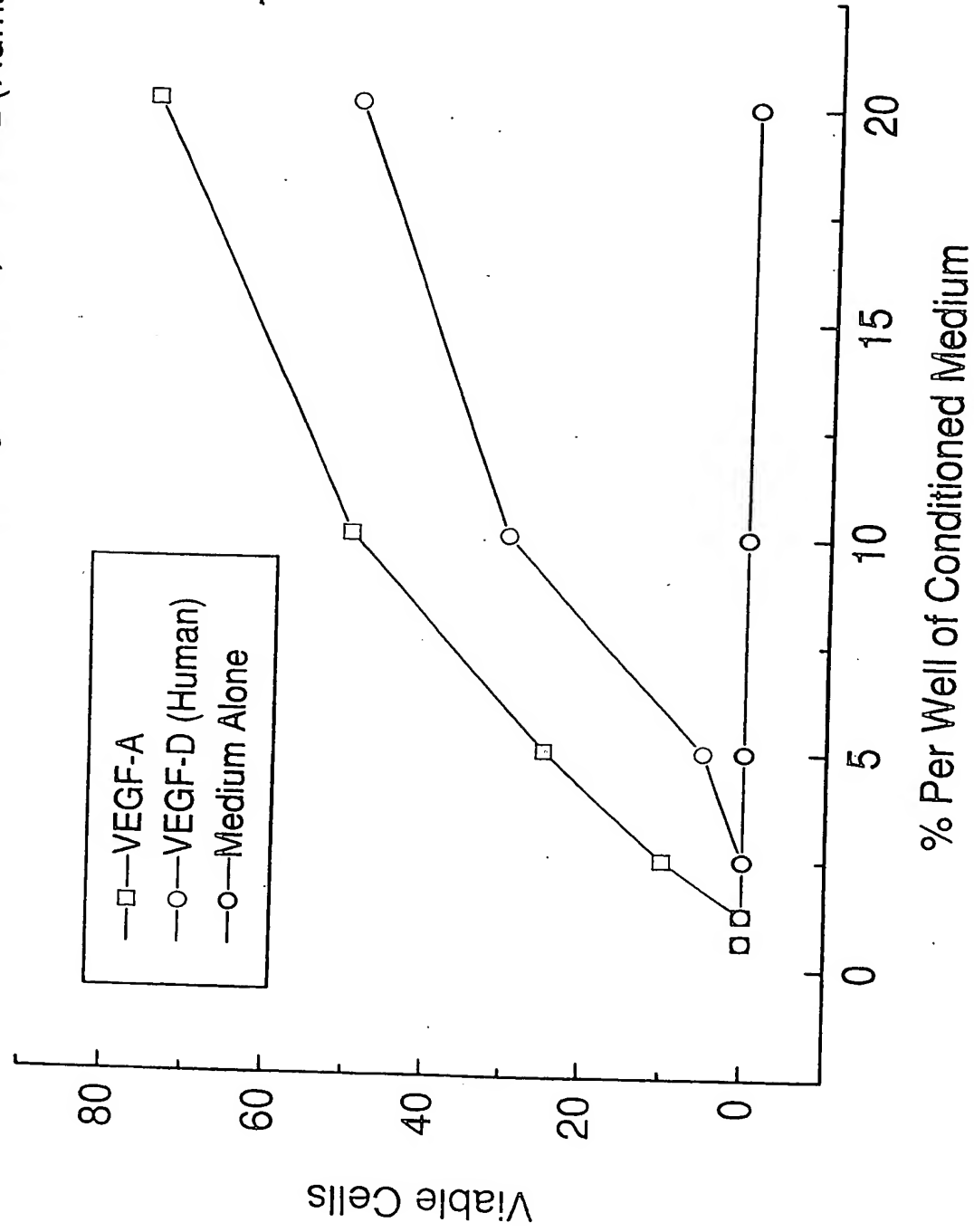
1	M	Y	R	E	W	V	V	N	V	F	M	M	---	---	---	---	L	Y	V	O	L	V	O	G	S	S	N	E	H	G	P	V	K	---	---	---	---	h	V	E	G	F	-	D					
1	M	H	L	G	F	F	S	V	A	C	S	L	---	---	---	---	L	A	A	A	L	P	G	P	R	E	A	P	A	A	A	A	F	E	S	C	h	V	E	G	F	-	C						
1	M	N	F	L	---	---	---	L	S	W	V	H	W	S	L	A	L	L	Y	L	H	H	A	K	W	S	Q	A	A	P	M	A	---	---	---	---	h	V	E	G	F	165							
1	M	S	P	L	---	---	---	L	R	R	L	---	---	---	---	---	L	L	A	A	Y	L	Q	L	A	P	A	Q	A	P	V	S	Q	---	---	---	---	h	V	E	G	F	-	B					
1	M	P	V	M	R	L	F	P	C	F	L	Q	L	---	---	---	L	A	G	L	A	L	P	A	V	P	P	Q	Q	W	A	L	S	---	---	---	---	h	P	I	G	F	---						
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	R	S	S	Q	T	L	E	R	S	E	Q	I	R	A	S	S	L	E	E	L	R	I	T	H	S	h	V	E	G	F	-	D	
36	L	D	L	S	D	A	E	P	D	A	G	E	A	T	A	Y	A	S	K	D	L	E	E	Q	L	R	S	V	S	S	V	D	E	L	M	T	V	L	Y	P	h	V	E	G	F	-	C		
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	E	G	G	Q	N	H	E	V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	165			
26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	P	D	A	P	G	H	Q	R	K	V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	-	B		
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	A	G	N	G	S	E	V	E	V	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	P	I	G	F	---		
60	E	D	W	K	L	W	R	C	R	L	R	---	---	---	---	---	L	K	S	F	T	S	M	D	S	R	S	A	S	H	R	S	T	R	F	A	A	T	F	Y	D	h	V	E	G	F	-	D	
76	E	Y	W	K	M	Y	K	C	Q	L	R	K	G	G	W	Q	H	N	R	E	Q	A	N	L	N	S	R	T	E	E	T	I	K	F	A	A	H	Y	N	h	V	E	G	F	-	C			
42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	165		
37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	-	B	
42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	P	I	G	F	---	
96	I	E	T	L	K	V	I	D	E	E	W	D	R	T	Q	C	S	P	R	E	T	C	V	E	V	A	S	E	L	G	K	S	T	N	T	F	F	K	P	P	h	V	E	G	F	-	D		
116	T	E	T	L	K	S	I	D	N	E	W	R	K	T	Q	C	M	P	R	E	V	C	I	D	V	G	K	E	F	G	V	A	T	N	T	F	F	K	P	P	h	V	E	G	F	-	C		
42	---	---	---	---	---	---	---	K	F	M	D	V	Y	Q	R	S	Y	C	H	P	I	E	T	L	V	D	I	F	Q	E	Y	P	D	E	I	E	Y	I	F	K	P	S	h	V	E	G	F	165	
37	---	---	---	---	---	---	---	S	W	I	D	V	Y	T	R	A	T	C	Q	P	R	E	V	V	P	L	T	V	E	L	M	G	T	V	A	K	Q	L	V	P	S	h	V	E	G	F	-	B	
42	---	---	---	---	---	---	---	P	F	Q	E	V	W	G	R	S	Y	C	R	A	L	E	R	L	V	D	V	V	S	E	Y	P	S	E	V	E	H	M	F	S	P	S	h	P	I	G	F	---	
136	C	V	N	V	F	R	C	G	G	C	C	N	E	E	S	L	I	C	M	N	T	S	T	D	Y	I	S	K	Q	L	P	E	I	S	V	P	L	T	S	V	h	V	E	G	F	-	D		
156	C	V	S	V	Y	R	C	G	G	C	C	N	S	E	G	L	Q	C	M	N	T	S	T	S	Y	L	S	K	T	L	P	E	I	T	V	P	L	S	Q	G	h	V	E	G	F	-	C		
77	C	V	P	L	M	R	C	G	G	C	C	N	D	E	G	L	E	C	V	P	T	E	E	S	N	I	T	M	Q	I	M	R	I	K	P	---	---	---	---	H	Q	G	h	V	E	G	F	165	
72	C	V	T	V	Q	R	X	G	G	C	C	P	D	D	G	L	E	C	V	P	T	I	G	Q	H	Q	V	R	M	Q	I	L	M	I	R	---	---	---	---	Y	P	S	h	V	E	G	F	-	B
77	C	V	S	L	R	C	T	G	C	C	G	D	E	N	L	H	C	V	P	V	E	T	A	N	V	T	M	Q	L	L	K	I	R	S	---	---	---	---	G	D	R	h	P	I	G	F	---		
176	P	E	L	V	P	V	K	V	A	N	R	T	G	C	K	C	L	P	T	A	P	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	-	D
196	P	K	P	V	T	I	S	F	A	N	H	T	S	C	R	C	M	S	K	L	D	V	Y	R	Q	V	H	S	I	R	R	---	---	---	---	S	L	P	A	T	L	h	V	E	G	F	-	C	
115	Q	H	I	G	E	M	S	F	L	Q	H	N	K	C	E	C	R	P	K	K	D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	165	
109	S	Q	L	G	E	M	S	L	E	E	H	S	Q	C	E	C	R	P	K	K	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	V	E	G	F	-	B
115	P	S	Y	V	E	L	T	F	S	Q	H	V	R	C	E	C	R	P	L	K	E	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	h	P	I	G	F	---

FIG. 10A



FIG. 11

VEGFR2 bioassay. Testing of COS cell conditioned medium containing VEGF-A, VEGF-D(Human)





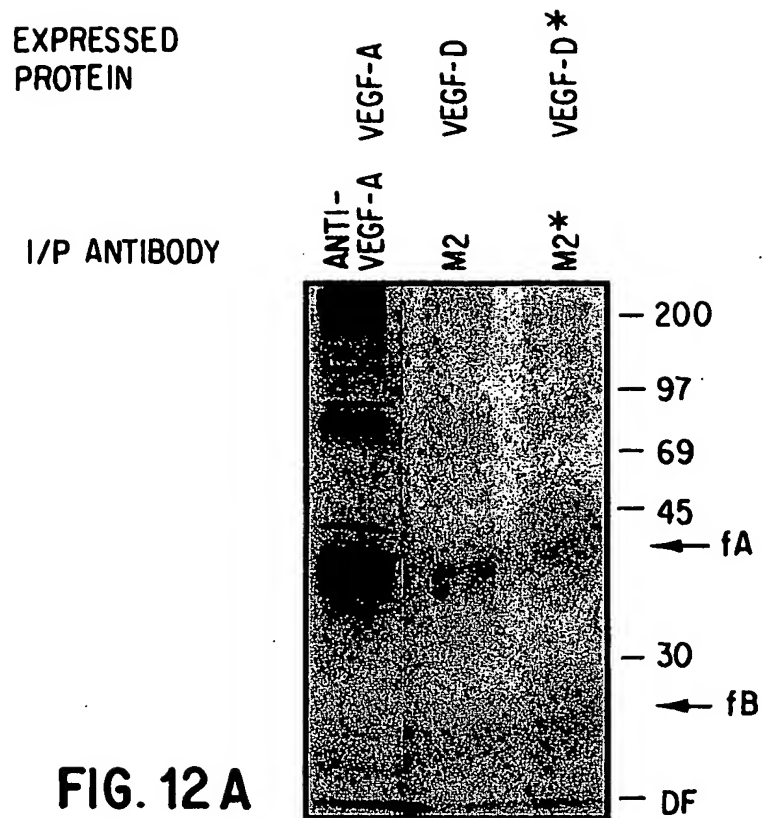


FIG. 12 A

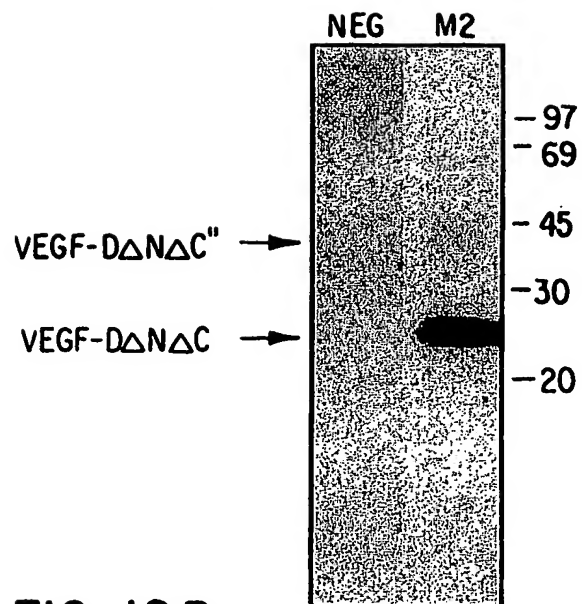
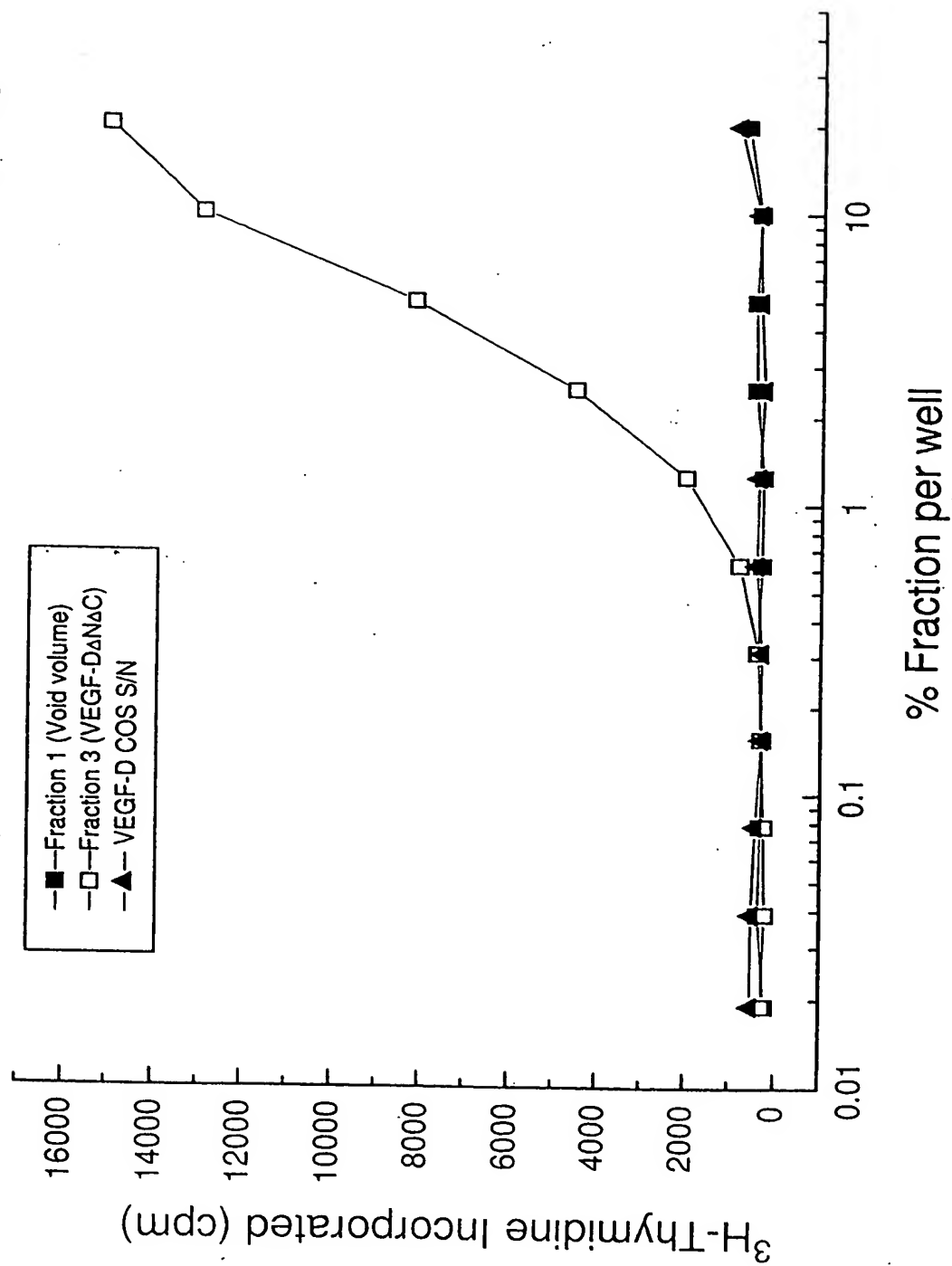


FIG. 12 B

FIG. 13



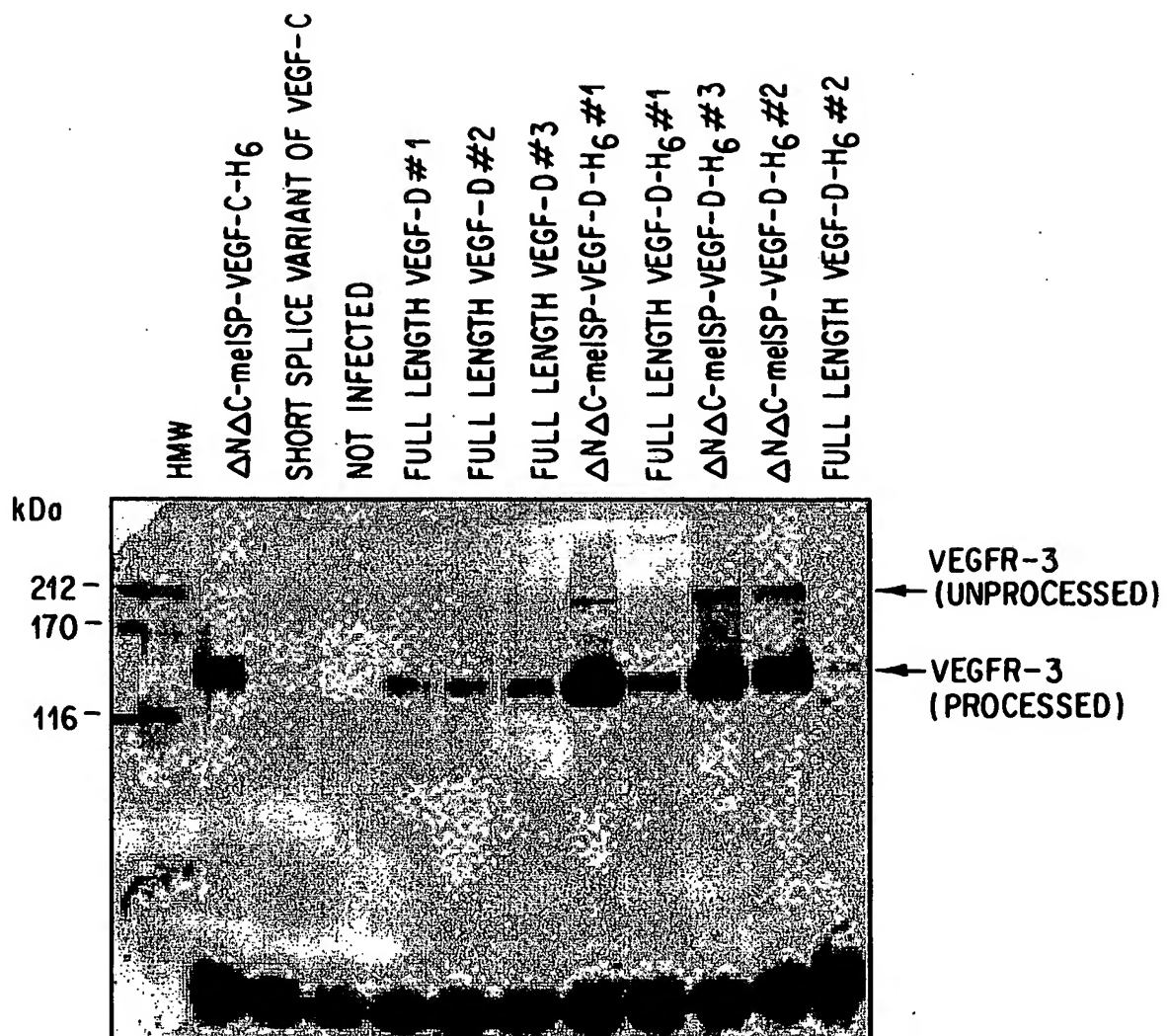


FIG. 14

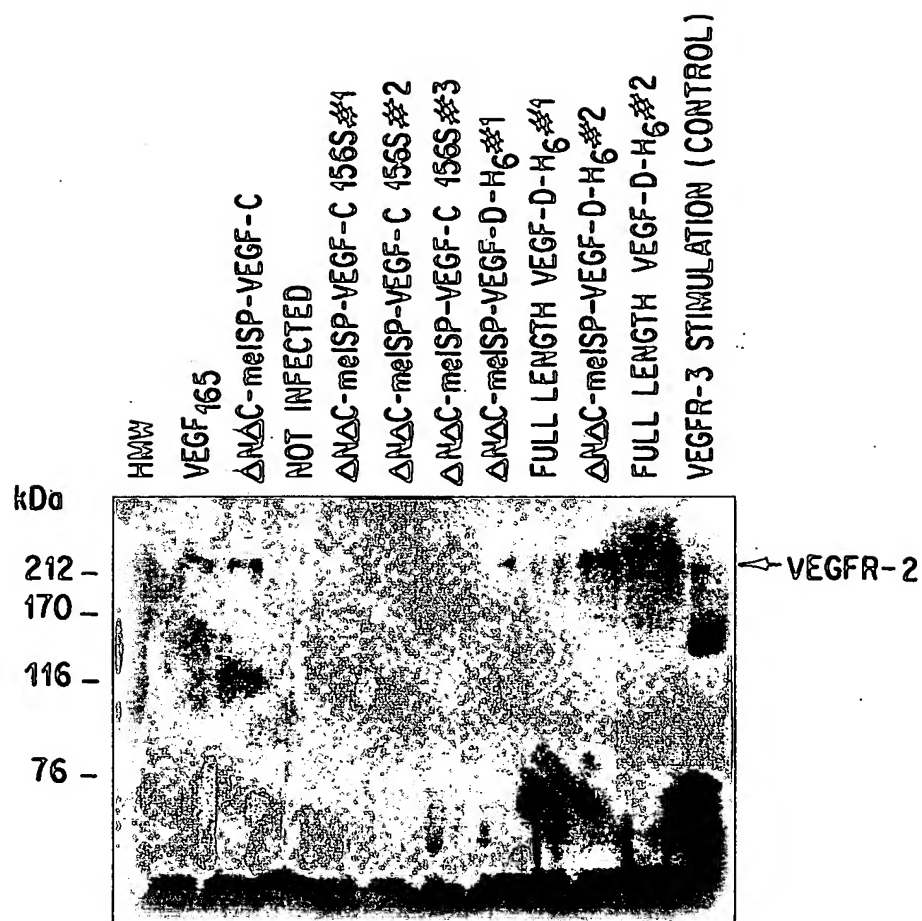


FIG. 15

FIG. 16

